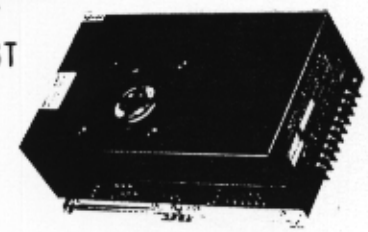
MEAN WELL
SWITCHING POWER SUPPLY

S-300 SERIES

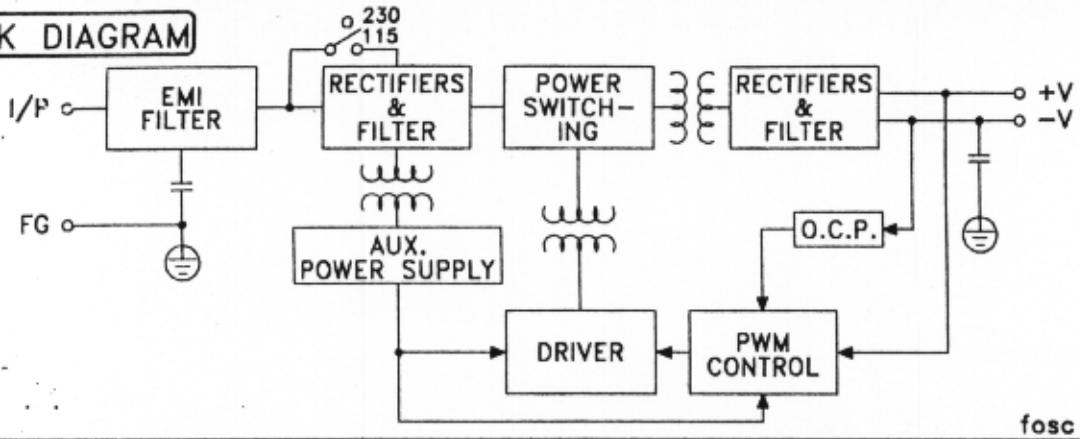
- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST



SPECIFICATION \ MODEL	S-300-12	S-300-24
DC OUTPUT VOLTAGE	12V	24V
OUTPUT V. TOLERANCE	±1%	±1%
OUTPUT RATED CURRENT	25A	12.5A
OUTPUT CURRENT RANGE	0-25A	0-12.5A
RIPPLE & NOISE (p-p)	120mVp-p	120mVp-p
LINE REGULATION	±0.3%	±0.2%
LOAD REGULATION	±0.3%	±0.2%
DC OUTPUT POWER	300W	300W
FFICIENCY	83%	84%
DC VOLTAGE ADJ.	±10%	±10%
INPUT VOLTAGE RANGE	88～132VAC / 176～264VAC SELECTED BY SWITCH ON CASE	
INPUT FREQUENCY	47～63Hz	
AC CURRENT	4.9A/115V 2.3A/230V	
INRUSH CURRENT	COLD START 30A (115VAC/230VAC)	
OVERLOAD PROTECTION	105%～135% TYPE:FOLDBACK CURRENT SHUTDOWN RECOVERY:RE-POWER ON	
OVER V. PROTECTION	-----	
OVER TEMP. PROTECTION	-----	
TEMP. COEFFICIENT	±0.03% / ℃ (0～50℃)	
SETUP,RISE,HOLD UP TIME	200ms, 50ms, 16ms	
WITHSTAND VOLTAGE	I/P-O/P:1.5KV I/P-FG:1.5KV O/P-FG:0.5KV 1min.	
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)	
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH	
DIMENSION	250＊150＊80mm CASE:908	
WEIGHT	2.5Kgs	
SAFETY	-----	
MC	MEET FCC PART15 J CONDUCTION CLASS B	

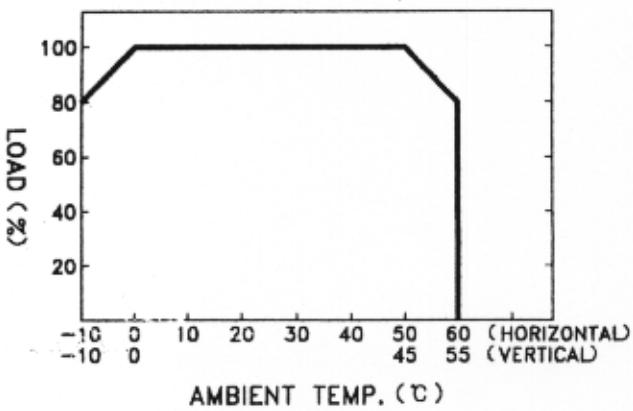
NOTE: 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2.TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.

BLOCK DIAGRAM

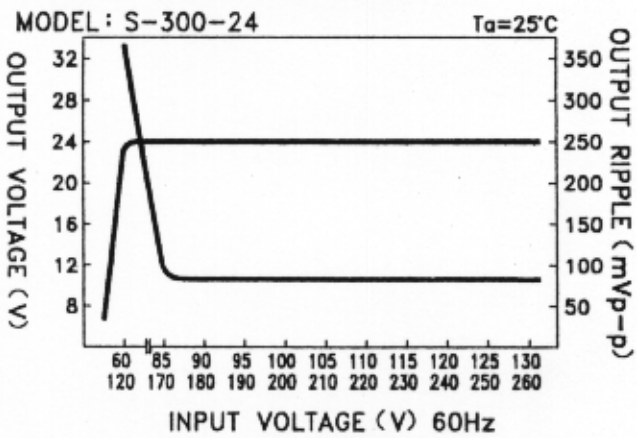


fosc: 25KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- CASE : 908
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN4,5,6: DC OUTPUT -V
  - PIN7,8,9: DC OUTPUT +V